

**NATURAL RESOURCES CONSERVATION SERVICE
DOCUMENTATION AND CERTIFICATION**

**WATER WELL
Code 642**

The items below shall be recorded in the conservation plan, conservation notes or an approved form as minimum documentation requirements for a practice.

1. Location and Site Investigation

Environmental Checklist Form (CB-EVC-2)

Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide

Conservation Plan Map

Location Map (Topographic Quadrangles)

Aerial Photos

Surveying Plat (Property Limits)

Flooding Maps (FEMA)

SHPO - Cultural Resources Inventory

Maps from Utilities Co. Providers

References:

- TR-1, Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- NRCS, GM 420, Part 401, Cultural Resources
- USGS Topographic Quadrangles

2. Soils/Geology Investigation

Geologic Maps

Soil Boring - Form CB-ENG-016, Site Investigation Log Sheet

Conservation Plan Soil Map

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart

3. Engineering Survey

Form SCS-ENG-28

Form SCS-ENG-29

Reference:

- 210-VI-TR-62, Engineering Layout, Notes, Staking and Calculations

4. Engineering Criteria

References:

- CB FOTG Sec. IV, Code 642, Water Well
- ASTM, American Standard Testing Material
- A589 - Steel well casing requirements
- C845 -Expansive hydraulic cement
- D2996 -Filament-wound fiberglass casing
- D5521 -Standard Guide for Development of Ground-Water Monitoring Wells in Granular Aquifer
- F480 -Requirements for Joints
- 210-VI-NEH-650.12, EFH Chapter 12, Springs and Wells
- 210-VI-NEH-651.07, AWMFH Chapter 7, Geologic and Ground Water Considerations

5. Drafting and Drawings

Drafting Computer Programs Output
Sketches and Drawings

References:

- 210-VI-NEH-650.05, EFH Chapter 5, Preparation of Engineering Plans
- 210-VI-TR-73, Computer Aided Design and Drafting (CADD) Standards

6. Engineering Cost Estimates

Reference:

- CB FOTG Section I, Cost Data

7. O&M and Safety

Operation and Maintenance Plan

Reference:

- OSHA Reference Manuals

8. Construction Materials and Specifications

References:

- 210-VI-NEH-650.17, EFH Chapter 17, Construction and Construction Materials
- 210-VI-NEH - Part 642, Specifications for Construction Contracts

9. Installation and Certification

Certification that application meets NRCS standards and specifications

Reference:

- 210-VI-NEH-19, Section 19, Construction Inspection